# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** CAPITAL RE ENERGY AND LABORATORY PVT. LTD., PLOT NO 2/244,PATTANATHAMMAN KOIL STREET, PERIYAPILLERI, THAIYUR, KELAMBAKKAM, CHENNAI, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-7237 **Page No** 1 of 18

**Validity** 06/10/2021 to 05/10/2023 **Last Amended on** 26/01/2022

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | BIOLOGICAL-ENVIRONMENT AND POLLUTION | Agar Settle Plate Method | Bacterial Count | APHA- 5th Edition Chapter 3 |
| 2 | BIOLOGICAL-ENVIRONMENT AND POLLUTION | Agar Settle Plate Method | Coliform | APHA- 5th Edition Chapter 3 |
| 3 | BIOLOGICAL-ENVIRONMENT AND POLLUTION | Agar Settle Plate Method | Yeast and Mould | APHA- 5th Edition Chapter 3 |
| 4 | BIOLOGICAL-ENVIRONMENT AND POLLUTION | Swab Test Environmental Air(Clean room & Non clean room) | Coliform | "Withdrawn"ISO 18593 |
| 5 | BIOLOGICAL-ENVIRONMENT AND POLLUTION | Swab Test Environmental Air(Clean room & Non clean room) | Coliform | APHA- 5th Edition Chapter 3 |
| 6 | BIOLOGICAL-ENVIRONMENT AND POLLUTION | Swab Test Environmental Air(Clean room & Non clean room) | E.coli | "Withdrawn"ISO 18593 |
| 7 | BIOLOGICAL-ENVIRONMENT AND POLLUTION | Swab Test Environmental Air(Clean room & Non clean room) | E.coli | APHA- 5th Edition Chapter 3 |
| 8 | BIOLOGICAL-ENVIRONMENT AND POLLUTION | Swab Test Environmental Air(Clean room & Non clean room) | Total Plate Count | "Withdrawn"ISO 18593 |
| 9 | BIOLOGICAL-ENVIRONMENT AND POLLUTION | Swab Test Environmental Air(Clean room & Non clean room) | Total Plate Count | APHA- 5th Edition Chapter 3 |
| 10 | BIOLOGICAL-ENVIRONMENT AND POLLUTION | Swab Test Environmental Air(Clean room & Non clean room) | Yeast and Mould | "Withdrawn"ISO 18593 |
| 11 | BIOLOGICAL-ENVIRONMENT AND POLLUTION | Swab Test Environmental Air(Clean room & Non clean room) | Yeast and Mould | APHA- 5th Edition Chapter 3 |
| 12 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | E.coli | IS 5887 (Part 1) |
| 13 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | E.coli | IS 5887 (Part 1) |

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| 14 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | E.coli | IS 5887 (Part 1) |
| 15 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | E.coli | USFDA (BAM) 8th Edition |
| 16 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | E.coli | USFDA (BAM) 8th Edition |
| 17 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Salmonella | IS 5887(Part 3) |
| 18 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Salmonella | ISO 6579 |
| 19 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Shigella | IS 5887(Part 7) |
| 20 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Staphylococcus aureus | IS 5887(Part 8) Sec 1 |
| 21 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Staphylococcus aureus | IS 5887(Part 8) Sec 2 |
| 22 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Staphylococcus aureus | ISO 6888-1 |
| 23 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Staphylococcus aureus | ISO 6888-2 |
| 24 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Total Coliform | IS 5401 (Part 2) |
| 25 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Total Coliform | IS 5401(Part 1) |
| 26 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Total Coliform | ISO 4831 |
| 27 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Total Coliform | ISO 4832 |

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|---|---|---|---|---|
| 28 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Total Coliform | USFDA (BAM) 8th Edition |
| 29 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Total Coliform | USFDA (BAM) 8th Edition |
| 30 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Total Plate Count / Aerobic Plate Count | IS 5402 |
| 31 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Total Plate Count / Aerobic Plate Count | ISO 4833 |
| 32 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Total Plate Count / Aerobic Plate Count | USFDA(BAM) 8th Edition |
| 33 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Vibrio cholerae | IS 5887(Part 5) |
| 34 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Yeast and Mould | IS 5403 |
| 35 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Yeast and Mould | USFDA (BAM) 8th Edition |
| 36 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | E.coli | IS 5887 (Part 1) |
| 37 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | E.coli | IS 5887 (Part 1) |
| 38 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | E.coli | IS 5887 (Part 1) |
| 39 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | E.coli | USFDA (BAM) 8th Edition |
| 40 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | E.coli | USFDA (BAM) 8th Edition |
| 41 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Salmonella | IS 5887(Part 3) |

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| 42 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Salmonella | ISO 6579 |
| 43 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Shigella | IS 5887(Part 7) |
| 44 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Staphylococcus aureus | IS 5887(Part 8) Sec 1 |
| 45 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Staphylococcus aureus | IS 5887(Part 8) Sec 2 |
| 46 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Staphylococcus aureus | ISO 6888-1 |
| 47 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Staphylococcus aureus | ISO 6888-2 |
| 48 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Total Coliform | IS 5401 (Part 2) |
| 49 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Total Coliform | IS 5401(Part 1) |
| 50 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Total Coliform | ISO 4831 |
| 51 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Total Coliform | ISO 4832 |
| 52 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Total Coliform | USFDA (BAM) 8th Edition |
| 53 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Total Coliform | USFDA (BAM) 8th Edition |
| 54 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Total Plate Count / Aerobic Plate Count | IS 5402 |
| 55 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Total Plate Count / Aerobic Plate Count | ISO 4833(Part 1) |

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|---|---|---|---|---|
| 56 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Total Plate Count / Aerobic Plate Count | USFDA(BAM) 8th Edition |
| 57 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Vibrio cholerae | IS 5887(Part 5) |
| 58 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Yeast and Mould | IS 5403 |
| 59 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Fruits & Fruit products | Yeast and Mould | USFDA (BAM) 8th Edition |
| 60 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | E.coli | IS 5887 (Part 1) |
| 61 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | E.coli | IS 5887 (Part 1) |
| 62 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | E.coli | IS 5887 (Part 1) |
| 63 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | E.coli | USFDA (BAM) 8th Edition |
| 64 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | E.coli | USFDA (BAM) 8th Edition |
| 65 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Salmonella | IS 5887 (Part 3) |
| 66 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Salmonella | ISO 6579 |
| 67 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Shigella | IS 5887(Part 7) |
| 68 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Staphylococcus aureus | IS 5887(Part 8) Sec 1 |
| 69 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Staphylococcus aureus | IS 5887(Part 8) Sec 2 |

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| 70 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Staphylococcus aureus | ISO 6888-1 |
| 71 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Staphylococcus aureus | ISO 6888-2 |
| 72 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Total Coliform | IS 5401 (Part 2) |
| 73 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Total Coliform | IS 5401(Part 1) |
| 74 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Total Coliform | ISO 4831 |
| 75 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Total Coliform | ISO 4832 |
| 76 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Total Coliform | USFDA (BAM) 8th Edition |
| 77 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Total Coliform | USFDA (BAM) 8th Edition |
| 78 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Total Plate Count / Aerobic Plate Count | IS 5402 |
| 79 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Total Plate Count / Aerobic Plate Count | ISO 4833(Part 1) |
| 80 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Total Plate Count / Aerobic Plate Count | USFDA(BAM) 8th Edition |
| 81 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Vibrio cholerae | IS 5887(Part 5) |
| 82 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Yeast and Mould | IS 5403 |
| 83 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Milk & Diary products | Yeast and Mould | USFDA (BAM) 8th Edition |

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| 84 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Cooked and Ready to eat Foods-Hotel & Canteen Foods) | E.coli | IS 5887 (Part 1) |
| 85 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | E.coli | IS 5887 (Part 1) |
| 86 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | E.coli | IS 5887 (Part 1) |
| 87 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | E.coli | USFDA (BAM) 8th Edition |
| 88 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | E.coli | USFDA (BAM) 8th Edition |
| 89 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Salmonella | IS 5887(Part 3) |
| 90 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Salmonella | ISO 6579 |
| 91 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Shigella | IS 5887(Part 7) |
| 92 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Staphylococcus aureus | IS 5887(Part 8) Sec 1 |
| 93 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Staphylococcus aureus | IS 5887(Part 8) Sec 2 |
| 94 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Staphylococcus aureus | ISO 6888-1 |
| 95 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Staphylococcus aureus | ISO 6888-2 |
| 96 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Total Coliform | IS 5401 (Part 2) |
| 97 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Total Coliform | IS 5401(Part 1) |

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| 98 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Total Coliform | ISO 4831 |
| 99 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Total Coliform | ISO 4832 |
| 100 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Total Coliform | USFDA (BAM) 8th Edition |
| 101 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Total Coliform | USFDA (BAM) 8th Edition |
| 102 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Total Plate Count / Aerobic Plate Count | IS 5402 |
| 103 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Total Plate Count / Aerobic Plate Count | ISO 4833(Part 1) |
| 104 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Total Plate Count / Aerobic Plate Count | USFDA(BAM) 8th Edition |
| 105 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Vibrio cholerae | IS 5887 (Part 5) |
| 106 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Yeast and Mould | IS 5403 |
| 107 | BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS | Other Specified Food Items (Raw, Frozen, Cooked and Ready to Eat Foods-Hotel & Canteen Foods) | Yeast and Mould | USFDA (BAM) 8th Edition |
| 108 | BIOLOGICAL- WATER | Water (Drinking Water/ Packaged Drinking/ Raw Water) | E.Coli | IS 1622 |
| 109 | BIOLOGICAL- WATER | Water (Drinking Water/ Packaged Drinking/ Raw Water) | E.Coli | IS 5887(Part 1) |
| 110 | BIOLOGICAL- WATER | Water (Drinking Water/ Packaged Drinking/ Raw Water) | Legionella | ISO 11731 |
| 111 | BIOLOGICAL- WATER | Water (Drinking Water/ Packaged Drinking/ Raw Water) | Total Coliform | IS 1622 |
| 112 | BIOLOGICAL- WATER | Water (Drinking Water/ Packaged Drinking/ Raw Water) | Total Coliform | IS 5401 (Part 2) |
| 113 | BIOLOGICAL- WATER | Water (Drinking Water/ Packaged Drinking/ Raw Water) | Total Coliform | IS 5401(Part 1) |
| 114 | BIOLOGICAL- WATER | Water (Drinking Water/ Packaged Drinking/ Raw Water) | Total Plate Count /Standard plate count | IS 1622 |
| 115 | BIOLOGICAL- WATER | Water (Drinking Water/ Packaged Drinking/ Raw Water) | Yeast and Mould | IS 5403 |

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|---|---|---|---|---|
| 116 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Ambient Temperature | CaRE/CH/SOP-001 |
| 117 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Ammonia as NH3 | IS: 5182 (Part 25) |
| 118 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Carbon Monoxide as CO | IS : 5182(Part 10) |
| 119 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Carbon Monoxide as CO | Niosh 6604 |
| 120 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Leq (Day & Night) | IS 9989 |
| 121 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Luminance | CaRE/CH/SOP-007 |
| 122 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Nitrogen Oxides as NOx | IS 5182 ( Part- 6) |
| 123 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Nitrogen Oxides as NOx | IS 5182 ( Part- 6) |
| 124 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Ozone as O3 | IS:5182(Part 9). |
| 125 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Particulate matter (Particle Size less than 2.5 µm), PM 2.5 | IS:5182( Part 24) |
| 126 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Relative Humidity | CaRE/CH/SOP-006 |
| 127 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Respirable Particulate Matter | NIOSH 0600 |
| 128 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Respirable Particulate matter (Particle Size less than 10 µm), PM10 | IS 5182 - Part-23 |
| 129 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Sulphur Dioxide as SO2 | ASTM 2914 D |
| 130 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Sulphur Dioxide as SO2 | IS 5182 (Part- 2) |
| 131 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Suspended Particulate Matter (SPM) | IS 5182 (Part-4) |
| 132 | CHEMICAL- ATMOSPHERIC POLLUTION | Air | Total Aerosol Mass | NIOSH 0500 |
| 133 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack | Ammonia as NH3 | IS 11255 (Part-6) |

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| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 134 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack | Carbon Di Oxide as CO2 | BS EN 50379-1 |
| 135 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack | Carbon Monoxide as CO | BS EN 50379-1 |
| 136 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack | Gaseous Discharge (Nm3/hr) | IS 11255 (Part-3) |
| 137 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack | Moisture Content | IS 11255 ( Part-3) |
| 138 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack | Nitrogen Di Oxide as NO2 | BS EN 50379-1 |
| 139 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack | Oxygen as O2 | BS EN 50379-1 |
| 140 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack | Particulate Matter | IS 11255 ( Part-1) |
| 141 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack | Sulphur Di Oxide as SO2 | BS EN 50379-1 |
| 142 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack | Velocity | IS 11255 (Part-3) |
| 143 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Acid insoluble ash | IS 12711 |
| 144 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Acidity of extracted fat | IS 12711 |
| 145 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Ash | IS 12711 |
| 146 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Fat | IS 12711 |
| 147 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Moisture | IS 12711 |
| 148 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | pH of aqueous extract | IS 12711 |
| 149 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery & Confectionery Products | Protein | FSSAI Manual 1 |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
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|---|---|---|---|---|
| 150 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cereals and Cereal Products/ Pulses and Pulses Products | Acid Insoluble Ash | FSSAI Manual 3 |
| 151 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cereals and Cereal Products/ Pulses and Pulses Products | Acidity of Extracted Fat | FSSAI Manual 3 |
| 152 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cereals and Cereal Products/ Pulses and Pulses Products | Carbohydrate | FSSAI Manual 3 |
| 153 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cereals and Cereal Products/ Pulses and Pulses Products | Fat | FSSAI Manual 3 |
| 154 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cereals and Cereal Products/ Pulses and Pulses Products | Moisture | FSSAI Manual 3 |
| 155 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cereals and Cereal Products/ Pulses and Pulses Products | Protein | FSSAI Manual 3 |
| 156 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cereals and Cereal Products/ Pulses and Pulses Products | Total Ash | FSSAI Manual 3 |
| 157 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Fish & Fish Products (Raw Fish / Cooked Fish/ Frozen Fish and Products/ Processed Fish and Products) | Acid Insoluble Ash | FSSAI Manual 4 |
| 158 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Fish & Fish Products (Raw Fish / Cooked Fish/ Frozen Fish and Products/ Processed Fish and Products) | Carbohydrate | FSSAI Manual 4 |
| 159 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Fish & Fish Products (Raw Fish / Cooked Fish/ Frozen Fish and Products/ Processed Fish and Products) | Fat | FSSAI Manual 4 |
| 160 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Fish & Fish Products (Raw Fish / Cooked Fish/ Frozen Fish and Products/ Processed Fish and Products) | Moisture | FSSAI Manual 4 |
| 161 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Fish & Fish Products (Raw Fish / Cooked Fish/ Frozen Fish and Products/ Processed Fish and Products) | Protein | FSSAI Manual 4 |
| 162 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Fish & Fish Products (Raw Fish / Cooked Fish/ Frozen Fish and Products/ Processed Fish and Products) | Total Ash | FSSAI Manual 4 |
| 163 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Milk and Milk Products | Acid Insoluble Ash | FSSAI Manual 1 |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
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|---|---|---|---|---|
| 164 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Milk and Milk Products | Carbohydrate | FSSAI Manual 1 |
| 165 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Milk and Milk Products | Fat | FSSAI Manual 1 |
| 166 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Milk and Milk Products | Moisture | FSSAI Manual 1 |
| 167 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Milk and Milk Products | Protein | FSSAI Manual 1 |
| 168 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Milk and Milk Products | Total Ash | FSSAI Manual 1 |
| 169 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Raw Meat/ Cooked Meat/ Frozen and Products/ Processed Meat and Products | Acid Insoluble Ash | FSSAI Manual 4 |
| 170 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Raw Meat/ Cooked Meat/ Frozen and Products/ Processed Meat and Products | Carbohydrate | FSSAI Manual 4 |
| 171 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Raw Meat/ Cooked Meat/ Frozen and Products/ Processed Meat and Products | Fat | FSSAI Manual 4 |
| 172 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Raw Meat/ Cooked Meat/ Frozen and Products/ Processed Meat and Products | Moisture | FSSAI Manual 4 |
| 173 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Raw Meat/ Cooked Meat/ Frozen and Products/ Processed Meat and Products | Protein | FSSAI Manual 4 |
| 174 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Raw Meat/ Cooked Meat/ Frozen and Products/ Processed Meat and Products | Total Ash | FSSAI Manual 4 |
| 175 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt / Iodized Salt | Calcium | IS 7224 |
| 176 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt / Iodized Salt | Chloride as NaCl | IS 7224 |
| 177 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt / Iodized Salt | Iodine content | IS 7224 |

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|---|---|---|---|---|
| 178 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt / Iodized Salt | Magnesium | IS 7224 |
| 179 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt / Iodized Salt | Moisture | IS 7224 |
| 180 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt / Iodized Salt | Sulphate | IS 7224 |
| 181 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt / Iodized Salt | Water insoluble matter | IS 7224 |
| 182 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Spices | Acid Insoluble Ash | FSSAI Manual 2 |
| 183 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Spices | Alcohol Soluble Extract | FSSAI Manual 2 |
| 184 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Spices | Moisture | FSSAI Manual 2 |
| 185 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Spices | Protein | FSSAI Manual 2 |
| 186 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Spices | Total Ash | FSSAI Manual 2 |
| 187 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Vegetable Oil/ Coconut Oil/ Ghee/ Neem Oil/ Oil from Oil Seed/ Olive Oil/ Palm Oil/ Animal Fat | Acid value | IS 548(Part 1) |
| 188 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Vegetable Oil/ Coconut Oil/ Ghee/ Neem Oil/ Oil from Oil Seed/ Olive Oil/ Palm Oil/ Animal Fat | Moisture | IS 548(Part 1) |
| 189 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Chemical Oxygen Demand (COD) | APHA 23rd Edition 5220-B |
| 190 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Ammoniacal Nitrogen as N | APHA 23rd Edition 4500-NH3 C |
| 191 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Ammonical Nitrogen as N | IS:3025 (Part-34) |

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| 192 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Biochemical Oxygen Demand(BOD) @27°C for 3 days | IS:3025 (Part-44) |
| 193 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Calcium as Ca | APHA 23rd Edition 3500-Ca- B |
| 194 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Calcium as Ca | IS:3025 (Part-40) |
| 195 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Chemical Oxygen Demand (COD) | IS:3025 (Part-58) |
| 196 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Chlorides as Cl | APHA 23rd Edition 4500-Cl-B |
| 197 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Chlorides as Cl | IS:3025 (Part-32) |
| 198 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Electrical Conductivity @25°C | APHA 23rd Edition 2510-B |
| 199 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Electrical Conductivity @25°C | IS:3025 (Part-14) |
| 200 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Fluoride as F | APHA 23rd Edition 4500-F & D |
| 201 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Fluoride as F | IS:3025 (Part 60) |
| 202 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Free Ammonia as NH3 | APHA 23rd Edition 4500-NH3-C |
| 203 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Free Ammonia as NH3 | IS:3025 (Part-34) |
| 204 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Hexavalent Chromium as Cr6+ | APHA 23rd Edition 3500-Cr-B |
| 205 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Hexavalent Chromium as Cr6+ | IS:3025 (Part 52) |
| 206 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Magnesium as Mg | APHA 23rd Edition 3500 Mg-B |
| 207 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Magnesium as Mg | IS:3025 (Part-46) |
| 208 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Nitrate as NO3 | APHA 23rd Edition 4500 NO3-B |
| 209 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Nitrate as NO3 | IS:3025 (Part-34) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** CAPITAL RE ENERGY AND LABORATORY PVT. LTD., PLOT NO 2/244,PATTANATHAMMAN KOIL STREET, PERIYAPILLERI, THAIYUR, KELAMBAKKAM, CHENNAI, TAMIL NADU, INDIA

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| 210 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Nitrite as NO2 | APHA 23rd Edition 4500 NO2-B |
| 211 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Nitrite as NO2 | IS:3025 (Part-34) |
| 212 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Oil & Grease | APHA 23rd Edition 5520-O&G-D |
| 213 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Oil & Grease | IS 3025 (Part-39) |
| 214 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | pH @ 25°C | APHA 23rd Edition 4500-H+ B |
| 215 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | pH @ 25°C | IS:3025 (Part-11 |
| 216 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Phenolphthalein Alkalinity as CaCO3 | APHA 23rd Edition 2320 B |
| 217 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Phenolphthalein Alkalinity as CaCO3 | IS:3025 (Part-23) |
| 218 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Phosphorous as P | APHA 23rd Edition 4500 P-D |
| 219 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Phosphorous as P | IS:3025 (Part-31) |
| 220 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Physical Appearance | IS:3025 (Part-1) |
| 221 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Potassium as K | APHA 23rd Edition 3500 K,B |
| 222 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Potassium as K | IS:3025 (Part-45) |
| 223 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Silica as SiO2 | APHA 23rd Edition 4500 SiO2-C |
| 224 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Silica as SiO2 | IS:3025 (Part-35) |
| 225 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Sodium as Na | APHA 23rd Edition 3500 Na-B |
| 226 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Sodium as Na | IS:3025 (Part-45) |
| 227 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Sulphate as SO4 | APHA 23rd Edition ,4500 SO4-E |
| 228 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Sulphate as SO4 | IS:3025 (Part-24 |

# SCOPE OF ACCREDITATION

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| 229 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Temperature | APHA 23rd Edition ,2550 B |
| 230 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Total Alkalinity as CaCO3 | APHA 23rd Edition 2320 B |
| 231 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Total Alkalinity as CaCO3 | IS:3025 (Part-23) |
| 232 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Total Dissolved Solids | APHA 23rd Edition 2540-C |
| 233 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Total Dissolved Solids | IS:3025 (Part-16) |
| 234 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Total Hardness as CaCO3 | APHA 23rd Edition 2340-C |
| 235 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Total Hardness as CaCO3 | IS:3025 (Part-21) |
| 236 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Total Kjeldahl Nitrogen as N | APHA 23rd Edition 4500-NH3-C |
| 237 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Total Kjeldahl Nitrogen as N | IS:3025 (Part-34) |
| 238 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Total Suspended Solids | APHA 23rd Edition 2540-D |
| 239 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Total Suspended Solids | IS:3025 (Part-17) |
| 240 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Turbidity | APHA 23rd Edition 2130-B |
| 241 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water (STP Raw Water/ETP Raw Water/STP Treated Water / ETP Treated Water) | Turbidity | IS:3025 (Part-10) |
| 242 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Calcium as Ca | APHA 23rd Edition 3500-Ca-B |
| 243 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Calcium as Ca | IS:3025 (Part-40) |
| 244 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Calcium Hardness as CaCO3 | APHA 23rd Edition 2340-C |
| 245 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Calcium Hardness as CaCO3 | IS 3025(Part 21) |
| 246 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Carbonate Hardness as CaCO3 | IS:3025 (Part-21) |
| 247 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Chlorides as Cl | APHA 23rd Edition , 4500 Cl-B |
| 248 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Chlorides as Cl | IS:3025 (Part-32) |
| 249 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Color | APHA 23rd Edition 2120-B |
| 250 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Color | IS:3025 (Part 4) |
| 251 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Electrical Conductivity @25°C | IS:3025 (Part 14) |

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| 252 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Electrical Conductivity@25°C | APHA 23rd Edition 2510-B |
| 253 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Fluoride as F | APHA 22nd Edition ,4500-F & D |
| 254 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Fluoride as F | IS:3025 (Part 60) |
| 255 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Iron as Fe | APHA 23rd Edition , 3500-Fe-B |
| 256 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Iron as Fe | IS:3025 (Part-53) |
| 257 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Magnesium as Mg | APHA 23rd Edition 3500-Mg-B |
| 258 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Magnesium as Mg | IS:3025 (Part-46) |
| 259 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Magnesium Hardness as CaCO3 | APHA 23rd Edition 2340-C |
| 260 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Magnesium Hardness as CaCO3 | IS 3025(Part 21) |
| 261 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Nitrate as NO3 | APHA 23rd Edition 4500-NO3-B |
| 262 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Nitrate as NO3 | IS:3025 (Part-34) |
| 263 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Nitrite as NO2 | APHA 23rd Edition 4500-NO2-B |
| 264 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Nitrite as NO2 | IS:3025 (Part-34) |
| 265 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Non Carbonate Hardness as CaCO3 | IS:3025 (Part-21) |
| 266 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Odour | IS:3025 (Part 5) |
| 267 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | pH@25°C | APHA 23rd Edition 4500 -H+- B. |
| 268 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | pH@25°C | IS 3025 (Part-11) |
| 269 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Phenolphthalein Alkalinity as CaCO3 | APHA 23rd Edition 2320-B |
| 270 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Phenolphthalein Alkalinity as CaCO3 | IS:3025 (Part-23) |
| 271 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Physical Appearance | IS:3025(Part 1) |
| 272 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Potassium as K | APHA 23rd Edition 3500-K-B |
| 273 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Potassium as K | IS:3025 (Part-45) |
| 274 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Silica as SiO2 | APHA 23rd Edition , 4500-SiO2-C |
| 275 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Silica as SiO2 | IS:3025 (Part-35) |
| 276 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Sodium as Na | APHA 23rd Edition 3500 Na-B |

# SCOPE OF ACCREDITATION

**Laboratory Name :** CAPITAL RE ENERGY AND LABORATORY PVT. LTD., PLOT NO 2/244,PATTANATHAMMAN KOIL STREET, PERIYAPILLERI, THAIYUR, KELAMBAKKAM, CHENNAI, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-7237 **Page No** 18 of 18

**Validity** 06/10/2021 to 05/10/2023 **Last Amended on** 26/01/2022

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 277 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Sodium as Na | IS:3025 (Part-45) |
| 278 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Sulphate as SO4 | APHA 23rd Edition 4500-SO4-E |
| 279 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Sulphate as SO4 | IS:3025 (Part-24) |
| 280 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Total Alkalinity as CaCO3 | APHA 23rd Edition 2320-B |
| 281 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Total Alkalinity as CaCO3 | IS:3025 (Part-23) |
| 282 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Total Dissolved Solids | APHA 22nd Edition 2540-C |
| 283 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Total Dissolved Solids | IS:3025 (Part-16) |
| 284 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Total Hardness as CaCO3 | APHA 23rd Edition 2340-C |
| 285 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Total Hardness as CaCO3 | IS:3025 (Part-21) |
| 286 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Total Residual Chlorine | APHA 23rd Edition 4500-Cl-B |
| 287 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Total Residual Chlorine | IS:3025(Part 26) |
| 288 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Total Suspended Solids | APHA 23rd Edition 2540-D |
| 289 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Total Suspended Solids | IS:3025 (Part-17) |
| 290 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Turbidity | APHA 23rd Edition 2130-B |
| 291 | CHEMICAL- WATER | Water (Drinking Water/ Ground/ Surface Water/ Raw Water) | Turbidity | IS:3025 (Part-10) |
| 292 | CHEMICAL- WATER | Water for construction purpose | Chlorides as Cl | APHA 23rd Edition 4500 Cl-B |
| 293 | CHEMICAL- WATER | Water for construction purpose | Chlorides as Cl | IS:3025 (Part-32) |
| 294 | CHEMICAL- WATER | Water for construction purpose | Organic and Inorganic Solids | APHA 23rd Edition 2540-E |
| 295 | CHEMICAL- WATER | Water for construction purpose | Organic and Inorganic Solids | IS:3025 (Part-18) |
| 296 | CHEMICAL- WATER | Water for construction purpose | pH @ 25°C | APHA 23rd Edition 4500 -H+- B |
| 297 | CHEMICAL- WATER | Water for construction purpose | pH @ 25°C | IS:3025 (Part-11) |
| 298 | CHEMICAL- WATER | Water for construction purpose | Sulphate as SO4 | APHA 23rd Edition 4500-SO4-E |
| 299 | CHEMICAL- WATER | Water for construction purpose | Sulphate as SO4 | IS:3025 (Part-24) |
| 300 | CHEMICAL- WATER | Water for construction purpose | To neutralize 100ml of sample water using Mixed Indicator using 0.02N H2SO4 | IS:3025 (Part-23) |
| 301 | CHEMICAL- WATER | Water for construction purpose | To neutralize 100ml of sample water using Phonolphthalein as indicator using 0.02N NaOH | IS:3025 (Part-22) |
| 302 | CHEMICAL- WATER | Water for construction purpose | Total Solids /Non Volatile Residue@105°C | APHA 23rd Edition 2540-B |